

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P O Box 1450 Alexandria, Virgiria 22313-1450 www.uspio.gov

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 09/688,834 10/17/2000 O60831 1858 Toshio Koga 03/30/2009 EXAMINER SUGHRUE, MION, ZINN, MACPEAK & SEAS 2100 Pennsylvania Avenue, N.W. MEINECKE DIAZ, SUSANNA M Washington, DC 20037 ART UNIT PAPER NUMBER 3692

03/30/2009 PAPER

DELIVERY MODE

MAIL DATE

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1	
2	UNITED STATES PATENT AND TRADEMARK OFFICE
3	
4	
5	BEFORE THE BOARD OF PATENT APPEALS
6	AND INTERFERENCES
7	
8	E MONTHO HOO
9	Ex parte TOSHIO KOGA
.0	
1	A1 2000 0015
2	Appeal 2009-0815 Application 09/688,834
.3	Technology Center 3600
.2 .3 .4 .5	reclinology Center 3000
.6	
7	Decided ¹ : March 30, 2009
.8	Decided : March 30, 2009
9	
20	
21	Before MURRIEL E. CRAWFORD, HUBERT C. LORIN and DAVID B
. 1	Before MORRIEL E. CRAWTORD, HUBERT C. LORIN and DAVID B
22	WALKER, Administrative Patent Judges.
23	CRAWFORD, Administrative Patent Judge.
24	
25	DECISION ON APPEAL
26	

¹ The two-month time period for filing an appeal or commencing a civil action, as recited in 37 C.F.R. § 1.304, begins to run from the decided date shown on this page of the decision. The time period does not run from the Mail Date (paper delivery) or Notification Date (electronic delivery).

1	Appellant appeals under 35 U.S.C. § 134 (2002) from a final rejection
2	of claims 1 to 7. We have jurisdiction under 35 U.S.C. § 6(b) (2002).
3	
4	STATEMENT OF CASE
5	Appellant invented a vehicle onboard electronic toll collection
6	apparatus which includes a decision means for making a decision on when to
7	start collection information communication based on the detected speed of
8	the vehicle and the measured reception field intensity. (Specification 1, 6).
9	Claim 1 under appeal reads as follows:
10 11	A vehicle-onboard electronic toll collection apparatus, comprising:
12	(a) vehicle speed detecting means for detecting a speed of
13 14	a motor vehicle which passes through a toll gate station equipped with an electronic toll collection system;
15	(b) communication means for exchanging electronic toll
16	collection information for settlement of toll charge/payment
17	transaction with said toll gate station upon passing through said toll
18	gate station;
19	(c) measuring means for measuring reception field intensity of
20	the received electronic toll collection information within a
21	communication coverage area; and
22	(d) decision means for making decision on the basis of said
23 24	detected vehicle speed and said measured reception field intensity as
24 25	to a location within said communication coverage area where electronic toll collection information communication can be started
26	while sustaining favorable reception field intensity at said detected
27	vehicle speed, to thereby allow said communication means to perform
28	communication processing on the basis of result of said decision,
29	wherein said vehicle-onboard electronic toll collection
30	apparatus comprises elements (a)-(d), and
31	wherein said elements (a)-(d) are provided on a vehicle.
32	
33	The Examiner rejected claims 1 to 5 under 35 U.S.C. § 103(a) as
34	being unpatentable over Fuyama '376.

1 The Examiner rejected claims 6 and 7 under 35 U.S.C. § 103(a) as 2 being unpatentable over Fuvama '376 and Fuvama '267. 3 The prior art relied upon by the Examiner in rejecting the claims on 4 appeal is: Fuyama 5 US 6,259,376 B1 Jul. 10, 2001 6 Fuvama US 6.834,267 B1 Dec. 21, 2004 7 8 ISSUE 9 Has Appellant shown that the Examiner erred in finding that Fuyama '376 discloses a decision means for making a decision on when to start 10 11 collection information communication based on the detected speed of the 12 vehicle and the measured reception field intensity? 13 14 FINDINGS OF FACT 15 Fuvama '376 discloses a vehicle-onboard electronic toll collection 16 apparatus that includes a first sensor s1 and a second sensor s2 (Figure 1). Fuvama '376 discloses that one of the problems associated with electronic 17 18 toll devices is that two vehicles may communicate with the communication 19 portion 17 of the toll apparatus at the same time because the first vehicle is 20 traveling at a slow speed and thus the two vehicles are in the communication 21 area 29 at the same time (col. 4, ll. 63 to 66). To solve this problem, the 22 Fuyama '376 device starts communication with a vehicle traveling less than 23 30 kilometers per hour after the vehicle has passed sensor s1 and after a 24 predetermined time interval as measured by a timer 26 has elapsed. 25 However, if the vehicle is traveling so fast that it will reach the sensor s2

24

25

1 before the predetermined time interval has elapsed, i.e. if the vehicle is 2 traveling faster than 30 kilometers per hour, communication begins when the 3 vehicle has reached the sensor s2 (col. 5, 11, 30 to 50). There is no exact speed detected as such, but the speed of the vehicle is related to whether the 4 5 predetermined time interval has elapsed before the vehicle reaches sensor s2 6 or not 7 In addition, there is no decision made based on the speed of the 8 vehicle and the measured reception field intensity as to a location where the 9 electronic toll collection information communication can be started. Rather, the start of electronic toll collection is triggered by a predetermined time 10 11 interval after the vehicle passes sensor s1 or by the vehicle reaching sensor 12 s2. 13 14 PRINCIPLES OF LAW 15 In rejecting claims under 35 U.S.C. § 103, it is incumbent upon the 16 Examiner to establish a factual basis to support the legal conclusion of 17 obviousness, See In re Fine, 837 F.2d 1071, 1073 (Fed. Cir. 1988). 18 19 ANALYSIS 20 We will not sustain the rejections of the Examiner. The Appellant and 21 Examiner disagree on whether Fuyama '376 discloses a vehicle speed 22 detection means and whether Fuyama '376 discloses the claimed decision 23 means. Even if the Examiner is correct that the sensor arrangement of

Fuvama '376 detects the speed of a vehicle, Fuvama '376 does not disclose

the decision means that makes a decision as to where within the

1	communication coverage area to start the communication of toll collection
2	information based on the reception field intensity and the detected vehicle
3	speed. Rather, in Fuyama '376, when a car is moving slowly, less than 30
4	kilometers per hour, the communication is begun after a predetermined time
5	has elapsed. The decision to start communication is not dependent on the
6	reception field intensity and is not related to a location of the vehicle within
7	the communication coverage area. When a car is moving fast, more than 30
8	kilometers per hour, communication is always begun when the vehicle
9	reaches the second sensor s2 and is not dependent on the reception field
10	intensity.
11	In view of the foregoing, we will not sustain the Examiner's rejection
12	of claim 1 and claims 2 to 5, dependent thereon, under 35 U.S.C. § 103(a) as
13	being unpatentable over Fuyama '376. We will also not sustain the
14	Examiner's rejection of claims 6 and 7 under 35 U.S.C. § 103(a) as being
15	unpatentable over Fuyama '376 and Fuyama '267, because the Examiner
16	relies on Fuyama '376 for teaching the claimed decision means.
17	
18	CONCLUSION OF LAW
19	On the record before us, Appellant has shown that the Examiner erred
20	in rejecting the claims on appeal.
21	
22	DECISION
23	The decision of the Examiner is reversed.
24	
25	REVERSED

mls SUGHRUE, MION, ZINN, MACPEAK & SEAS 2100 PENNSYLVANIA AVENUE, N.W. WASHINGTON, DC 20037

Appeal 2009-0815

1 2